



SEQUENCE LISTING

<110> Boles, T. Christian
Weir, Lawrence
Stone, Benjamin B.
Mosaic Technologies

<120> Detection of Non-Viral Organisms With SRP RNA

<130> 018422-000210US

<140> US 09/336,609

<141> 1999-06-18

<150> US 60/090,063

<151> 1998-06-19

<160> 27

<170> PatentIn Ver. 2.0

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<223> Description of Artificial Sequence:nucleotides
44-65 of E. coli 4.5S RNA conserved across
bacteria

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44-65 preferred probe for detection of bacteria

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<220>

<223> Description of Artificial Sequence:complement of
conserved E. coli 4.5S RNA region nucleotides
preferred shorter probe for detection of bacteria

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21

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 conserved E. coli 4.5S RNA region nucleotides
 preferred shorter probe for detection of bacteria

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 conserved E. coli 4.5S RNA region nucleotides
 preferred shorter probe for detection of bacteria

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 conserved E. coli 4.5S RNA region nucleotides
 preferred shorter probe for detection of bacteria

<400> 6
 gacctgacct ggta 14

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 (Ad4.5S13Vnf) from conserved region of E. coli
 4.5S RNA

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<210> 8
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 from conserved region of E. coli 4.5S RNA

all
 cont

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 gctgcttcct tccggacctg acaaaaacga taaaccaacc a 41

 <210> 9
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 <220>
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 suitable for detection of E. coli species

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 <210> 10
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 <212> RNA
 <213> Artificial Sequence

 <220>
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 36-65 of E. coli 4.5S RNA conserved across
 bacteria

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 <210> 11
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 <212> DNA
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 conserved E. coli 4.5S RNA region nucleotides
 36-65 preferred probe for detection of bacteria

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 <210> 12
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 acrydite capture probe 13-III-ac

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 ntttttttta ggcccgggaa cgtattcac 29

<210> 13
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 <212> DNA
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<223> Description of Artificial Sequence:fluorescent sandwich probe 2F

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 ggcacacgcg tcatctgc

18

<210> 14
 <211> 12
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 <213> Artificial Sequence

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<222> (1)

<223> n = alkaline phosphatase-conjugated 2'-O-methyl guanosine ribonucleotide

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<222> (2)

<223> n = cm

<220>

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<222> (3)

<223> n = um

<220>

<221> modified_base

<222> (4)

<223> n = gm

<220>

<221> modified_base

<222> (5)

<223> n = cm

<220>

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<222> (6)

<223> n = um

<220>

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<222> (7)

<223> n = um

<220>

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<222> (8)

<223> n = cm

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cont

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<220>
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 <222> (10)
 <223> n = gm

<220>
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<220>
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 <222> (12)
 <223> n = cm

<400> 14
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12

<210> 15
 <211> 19
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 <213> Artificial Sequence

<220>
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 acrydite-modified capture probe CP-1

<220>
 <221> modified_base
 <222> (1)
 <223> n = acrydite-modified thymine

<220>
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 <222> (7)
 <223> n = cm

<220>
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 <222> (8)
 <223> n = gm

<220>
 <221> modified_base
 <222> (9)
 <223> n = gm

<220>
 <221> modified_base
 <222> (10)
 <223> n = 2'-O-methyl adenosine ribonucleotide

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 <221> modified_base
 <222> (11)
 <223> n = cm

<220>
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 <222> (12)
 <223> n = cm

<220>
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 <222> (13)
 <223> n = um

<220>
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 <222> (14)
 <223> n = gm

<220>
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 <222> (15)
 <223> n = 2'-O-methyl adenosine ribonucleotide

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 <223> n = cm

<220>
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 <222> (17)
 <223> n = cm

<220>
 <221> modified_base
 <222> (18)
 <223> n = um

<220>
 <221> modified_base
 <222> (19)
 <223> n = um

<400> 15
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19

<210> 16
 <211> 19
 <212> DNA
 <213> Artificial Sequence


<220>
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 acrydite-modified capture probe CP-2

<220>
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 <222> (1)
 <223> n = acrydite-modified thymine

<220>
 <221> modified_base
 <222> (7)
 <223> n = 2'-O-methyl adenosine ribonucleotide

<220>
<221> modified_base
<222> (8)
<223> n = gm

<220>
<221> modified_base
<222> (9)
<223> n = gm


<220>
<221> modified_base
<222> (10)
<223> n = 2'-O-methyl adenosine ribonucleotide

<220>
<221> modified_base
<222> (11)
<223> n = cm

<220>
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<222> (12)
<223> n = cm

<220>
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<222> (13)
<223> n = um

<220>
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<222> (14)
<223> n = gm

<220>
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<223> n = 2'-O-methyl adenosine ribonucleotide

<220>
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<223> n = cm

<220>
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<223> n = 2'-O-methyl adenosine ribonucleotide

<220>
<221> modified_base
<222> (18)
<223> n = um

<220>
<221> modified_base
<222> (19)
<223> n = gm

<400> 16
nttttttntnnn nnnnnnnnnn

19

<210> 17
<211> 19
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acrydite-modified capture probe CP-3

<220>
<221> modified_base
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<223> n = acrydite-modified thymine

<220>
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<223> n = cm

<220>
<221> modified_base
<222> (8)
<223> n = gm

<220>
<221> modified_base
<222> (9)
<223> n = gm

<220>
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<222> (10)
<223> n = 2'-O-methyl adenosine ribonucleotide

<220>
<221> modified_base
<222> (11)
<223> n = cm

<220>
<221> modified_base
<222> (12)
<223> n = cm

<220>
<221> modified_base
<222> (13)
<223> n = um

<220>
<221> modified_base
<222> (14)
<223> n = gm

<220>
<221> modified_base
<222> (15)
<223> n = 2'-O-methyl adenosine ribonucleoside

Al
cont

<220>
 <221> modified_base
 <222> (16)
 <223> n = cm

<220>
 <221> modified_base
 <222> (17)
 <223> n = cm

al
cont
 <220>
 <221> modified_base
 <222> (18)
 <223> n = 2'-O-methyl adenosine ribonucleotide

<220>
 <221> modified_base
 <222> (19)
 <223> n = gm

<400> 17
 ntttttntnnn nnnnnnnnn

19

<210> 18
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:gel-immobilized
 acrydite-modified capture probe CP-4

<220>
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 <222> (1)
 <223> n = acrydite-modified thymine

<220>
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 <223> n = cm

<220>
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 <222> (8)
 <223> n = gm

<220>
 <221> modified_base
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 <223> n = gm

<220>
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 <222> (10)
 <223> n = 2'-O-methyl adenosine ribonucleotide

<220>
 <221> modified_base
 <222> (11)
 <223> n = cm

<220>
 <221> modified_base
 <222> (12)
 <223> n = cm

<220>
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 <222> (13)
 <223> n = um

<220>
 <221> modified_base
 <222> (14)
 <223> n = gm

<220>
 <221> modified_base
 <222> (15)
 <223> n = 2'-O-methyl adenosine ribonucleotide

<220>
 <221> modified_base
 <222> (16)
 <223> n = cm

<220>
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 <222> (17)
 <223> n = 2'-O-methyl adenosine ribonucleotide

<220>
 <221> modified_base
 <222> (18)
 <223> n = 2'-O-methyl adenosine ribonucleotide

<220>
 <221> modified_base
 <222> (19)
 <223> n = gm

<400> 18
 nttttttnnnn nnnnnnnnnn

19

<210> 19
 <211> 19
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 acrydite-modified capture probe CP-5

<220>
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 <223> n = acrydite-modified thymine

<220>
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 <223> n = cm

Al
 cont

<220>
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<222> (8)
<223> n = gm

<220>
<221> modified_base
<222> (9)
<223> n = gm

<220>
<221> modified_base
<222> (10)
<223> n = 2'-O-methyl adenosine ribonucleotide

<220>
<221> modified_base
<222> (11)
<223> n = um

<220>
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<222> (12)
<223> n = cm

<220>
<221> modified_base
<222> (13)
<223> n = um

<220>
<221> modified_base
<222> (14)
<223> n = gm

<220>
<221> modified_base
<222> (15)
<223> n = 2'-O-methyl adenosine ribonucleotide

<220>
<221> modified_base
<222> (16)
<223> n = cm

<220>
<221> modified_base
<222> (17)
<223> n = 2'-O-methyl adenosine ribonucleotide

<220>
<221> modified_base
<222> (18)
<223> n = cm

<220>
<221> modified_base
<222> (19)
<223> n = gm

Al
cont

<400> 19
nttttttntnnn nnnnnnnnnn 19

<210> 20
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:5S RNA probe
(66nf)

<400> 20
ccacactacc atcggcgct 19

<210> 21
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:complementary
nucleic acid probe

<400> 21
gctgcttccg tc 12

<210> 22
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:complementary
nucleic acid probe

<400> 22
cggacctgac ctg 13

<210> 23
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:complementary
nucleic acid probe

<400> 23
aggaccugac aug 13

<210> 24
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:complementary
nucleic acid probe

Al
cont

<400> 24
cggaccugac cag

13

<210> 25
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:complementary
nucleic acid probe

<400> 25
cggaccugac aag

13

<210> 26
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:complementary
nucleic acid probe

<400> 26
cggaucugac acg

13

<210> 27
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
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phosphatase-cojugated reporter probe RP-1

<220>
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<223> n = alkaline phosphatase-conjugated 2'-O-methyl
guanosine ribonucleotide

<220>
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<223> n = cm

<220>
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<223> n = um

<220>
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<222> (4)
<223> n = gm

<220>
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<222> (5)
<223> n = cm

all
cont

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<223> n = um

<220>
<221> modified_base
<222> (7)
<223> n = um

Al
Concluded
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<223> n = cm

<220>
<221> modified_base
<222> (9)
<223> n = cm

<220>
<221> modified_base
<222> (10)
<223> n = um

<220>
<221> modified_base
<222> (11)
<223> n = um

<220>
<221> modified_base
<222> (12)
<223> n = cm

<400> 27
nnnnnnnnnn nn